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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MM/W.No.17/2017-18 Date: 07.09.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
AGENCY	:	**Sri. M. Manjunath,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Shops adjoining to Muthylanagara Bus Bay in Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	390 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No: CQCE/BBMP/MM/W.No.17/2017-18 Date : 07.09.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. M. Manjunath,** Contractor, Bangalore.

Name of Work : Construction of Shops adjoining to Muthylanagara Bus Bay in Ward No.17, BBMP, Bangalore.

Date of Testing : 07.09.2017

Material : Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	71	7.10	7.10	92.9	90-100
2.36	116	11.60	18.70	81.3	75-100
1.18	225	22.50	41.20	58.8	55-90
600 Micron	173	17.30	58.50	41.5	35-59
300 Micron	198	19.80	78.30	21.7	8-30
150 Micron	141	14.10	92.40	7.6	0-10

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Job No.: CQCE/BBMP/MM/W.No.17/2017-18 Date : 07.09.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. M. Manjunath,** Contractor, Bangalore.

Name of Work : Construction of Shops adjoining to Muthylanagara Bus Bay in Ward No.17, BBMP, Bangalore.

Date of Testing : 07.09.2017

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	381	2.54	2.54	97.46	95-100
20	7561	50.41	52.95	47.05	30-70
10	4163	27.75	80.70	19.30	10-35
4.75	2374	15.83	96.53	3.47	0-5

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Job No.: CQCE/BBMP/MM/W.No.17/2017-18 Date: : 07.09.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. M. Manjunath,** Contractor, Bangalore.

Name of Work : Construction of Shops adjoining to Muthylanagara Bus Bay in Ward No.17, BBMP, Bangalore.

Date of Testing : 07.09.2017

Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	177	3.5	3.5	96.5	95-100
10	2564	51.3	54.8	45.2	25-55
4.75	1986	39.7	94.5	5.5	0-10

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Job No.: CQCE/BBMP/MM/W.No.17/2017-18

Date: 11.09.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
AGENCY	:	**Sri. M. Manjunath,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Shops adjoining to Muthylanagara Bus Bay in Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Bricks Test – Class 5.0
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.17 N/mm^2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	12.83 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos.)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		3820 mm	(3800 ± 80 mm)
(b)	Measurement of Width in mm		1816 mm	(1800 ± 40 mm)
(c)	Measurement of Height in mm		1425 mm	(1400 ± 40 mm)

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Job No.: CQCE/BBMP/MM/W.No.17/2017-18

Date: 08.09.2017

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Agency	:	**Sri. M. Manjunath,** Contractor, Bangalore.
Name of Work	:	Construction of Shops adjoining to Muthylanagara Bus Bay in Ward No.17, BBMP, Bangalore.
Sample Identification	:	8mm,10mm,12mm,16mm, Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	08.09.2017

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.38	536	544	14
2	Fe 500	10	0.63	548	556	15.5
3	Fe 500	12	0.89	561	569	16.5
4	Fe 500	16	1.58	572	580	17

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Lab No.:CQCE/BBMP/MM/W.No.17/2017-18

12.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. M. Manjunath,** Contractor, Bangalore.

Name of the work : Construction of Shops adjoining to Muthylanagara Bus Bay in Ward No.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.09.2017	12.10.2017	8.289	515.3	22.90
2	14.09.2017	12.10.2017	8.256	555.2	24.68
3	14.09.2017	12.10.2017	8.277	542.8	24.12

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Lab No.:CQCE/BBMP/MM/W.No.17/2017-18 12.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Agency	: **Sri. M. Manjunath,** Contractor, Bangalore.
Name of the work	: Construction of Shops adjoining to Muthylanagara Bus Buy in Ward No.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.09.2017	12.10.2017	8.284	521.5	23.18
2	14.09.2017	12.10.2017	8.266	536.8	23.86
3	14.09.2017	12.10.2017	8.210	492.1	21.87

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No.:CQCE/BBMP/MM/W.No.17/2017-18 — 13.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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oss Sectional Area	: 22500 mm^2
chnical Reference	: IS: 516-1959 (Reaffirmed 2008)
ade of Concrete	: M_{20}
mpressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.09.2017	13.10.2017	8.285	512.5	22.78
2	15.09.2017	13.10.2017	8.264	528.9	23.51
3	15.09.2017	13.10.2017	8.252	473.3	21.04

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